

Joliet Junior College Bulletin



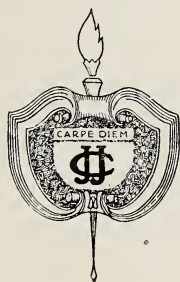
Circular of Information
and
Announcement of Courses

Admission in Joliet

Joliet, Illinois

September, 1938

JOLIET JUNIOR COLLEGE BULLETIN



JOLIET, ILLINOIS

SEPTEMBER, 1938

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JOLIET JUNIOR COLLEGE

Early History. The Joliet Township High School Board of Education has provided two years of college as a part of its educational program for many years. Dr. Leonard V. Koos of the University of Chicago names the Joliet Junior College as the oldest public junior college in the United States.

Accredited Standing. The Joliet Junior College, with Crane of Chicago and the Junior College of Grand Rapids, Michigan, was accredited by the North Central Association of Colleges and Secondary Schools in 1917. It is also fully accredited by the State University, the State Department of Education, and the American Association of Junior Colleges.

Offerings. The Joliet Junior College offers a wide variety of liberal arts and pre-professional courses, including teacher training. Admission to the upper division of the university is granted by certificate upon the completion of the required number of courses for the specific objective in mind. Graduates of the teacher training curriculum are awarded certificates to teach by the State Examining Board. Special work on the college level for nurses in one of the local hospitals is provided. A terminal curriculum in electrical engineering to aid young men who do not desire the regular four years' college course in engineering has been introduced.

Faculty Preparation. Teachers are required to have the master's degree in the subject of their department, awarded in a university of recognized standing. The standard has been in effect since June, 1918.

Physical Plant. Although the junior college is housed in the same building with the high school, it maintains separate laboratory and library facilities. The college work is in no way handicapped by this arrangement. The college facilities are in keeping with the excellent standards maintained in the high school since its organization as a township high school.

The boys' gymnasium has long been recognized as one of the best in the state, and with the completion of the new

addition four years ago, the girls have as good accommodations as, or better than, the boys. Individual lockers are provided in the gymnasium, in the laboratories, and in the corridors. The large cafeteria provides food at cost for individuals in the institution.

Library. The library contains 8,776 bound volumes and 1,572 pamphlets. The Dewey Decimal system is used, and all additions are catalogued promptly. Fifty-one periodicals are received regularly. Many magazines, bound at the end of each year form useful material for reference work. New books are being added as rapidly as possible. The library is open Saturday forenoons throughout the school year, in addition to the regular school days. The library quarters were enlarged in 1937, the year in which the college received a grant of \$6000 from the Carnegie Corporation for new books.

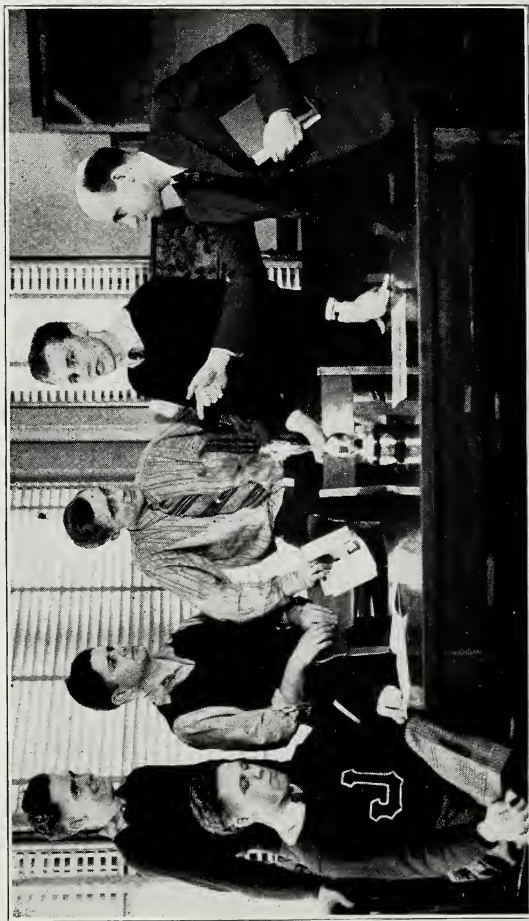
Six Advantages of the Joliet Junior College

1. Instruction comparable to the best instruction in the large universities.
2. Significant reduction in the cost of a college education.
3. Prolongation of home influence.
4. Careful attention to the individual needs of students.
5. Excellent equipment, such as laboratories and library.
6. An excellent program of student activities.

GENERAL INFORMATION

Registration: Classwork for the fall semester of the Junior College will open on the Tuesday following Labor Day. Students unable to register in June should register the first week in September. Registration for the second semester will take place from January 2nd to January 5th.

Registration will be considered **tentative** until (a) all fees have been paid, (b) high school credits have been received



DEBATE TEAM — STATE CHAMPIONS 1937-1938

and approved, (c) a psychological test has been taken, (d) a physical examination has been taken.

Tuition: Non-resident students who enroll for nine or more semester hours of work are required to pay a fee of \$100.00 per semester in advance. Non-resident students who enroll for less than nine semester hours will be permitted to pay at the rate of \$12.00 per semester hour.

Resident students taking nine or more semester hours are required to pay a fee of \$35.00 per semester. A rate of \$4.00 per semester hour is made to resident students taking less than nine semester hours. If a student withdraws from school before the end of the semester, his refund will be calculated in the following manner: Deduct \$5.00 for matriculation, then divide the remainder by the number of weeks of school in the semester. This result multiplied by the number of weeks of the semester remaining at the date of the student's withdrawal will give the amount of the refund.

Late Registration: Students who are permitted to enter after the first week of the semester will be required to pay for tutoring in all work missed at the rate of seventy-five cents per class assignment. The tutoring fee must be paid to the treasurer before entering classes.

Penalty: Tuition and fees as herein indicated are due and payable the first day of each semester. If not paid at this time a penalty of fifty cents will be added to both.

Laboratory Fees: The fees and deposits for the laboratory courses in science are somewhat lower than those charged by most colleges and state universities.

Laboratory deposits are to cover breakage of apparatus. That amount not used to cover breakage will be returned at the end of the semester or when the pupil leaves college. Laboratory fees are to cover materials used and are not returnable unless the student withdraws during the first two weeks of the semester.

Fees and deposits are payable at the time of enrollment each semester as follows:

Subject	Deposits	Fees
Chemistry 1-2-2A	\$2.00	\$4.00
Chemistry 3-4-5-6-7	3.00	4.00
Physics 1-2	2.00	2.50
Surveying 1-2	2.50	2.00
Botany 1-2	2.00	2.50
Zoology 1-2	2.00	4.00
Education 4		1.00
General Engineering Drawing	1.00	1.00
Descriptive Geometry	1.00	1.00
Forge and Pattern Work	2.00	2.00
Machine Shop	2.00	2.50
Astronomy	2.00	2.00
Geology 1	2.00	2.00
Geology 2	1.50	1.50
Art		1.50
Student Activities		5.00
English Outlines50
Social Science Outlines25

Student Activity Fee: A fee of \$5.00 per semester is charged each student to help defray expenses connected with maintaining the following activities: athletics, college paper, college literary club, dramatics, opera, debating and such social activities as may be properly sponsored by the college. This fee entitles the student to free admission to all college games and programs. The college paper is also included without further charge.

Payment of Fees: Students who have not paid or made satisfactory arrangements to pay their tuition and all fees and deposits during the first week of the semester will be dropped from class on Monday of the second week.

Amount of Work: A normal schedule for students devoting their entire time to school work is 15-16 semester hours exclusive of physical training. Part time students will be assigned work in accordance with the time they can devote to school duties. No additional outside work should be undertaken without the consent of the dean. **Students taking regular work should not undertake any outside work of any kind during their first semester in college.**

Scholarship: Report cards are issued at the end of each semester. A, B, C, and D are passing grades. E indicates failure.

At the end of the sixth and the twelfth week of each semester, students whose work is D or below are warned. If a student receives D or less in two subjects a full statement of the student's work is sent to the student's parent or guardian.

All absences from class appointments are to be accounted for to the dean. If an absence is caused by personal illness it will be marked **excused**; if caused by some factor over which the student has no control, e.g., blocked roads, needed at home, etc., it will be marked **absence accounted for**; if a cut it will be returned to the instructor with **no credit** stamped on it. Instructors are requested to permit students to make up work missed because of illness, but in no case is a student permitted to make up work when a blank has been marked **no credit**. Instructors may use their judgment regarding permission to make up work when blanks have been marked **absence accounted for**.

Probation: Any student who fails to make a passing grade in a minimum of eleven hours is placed on probation for the next semester; and, if during the semester for which he is on probation, he fails to pass the required minimum of eleven hours, he is dropped from the college. A student who is registered for less than eleven hours must carry all the hours for which he is registered; otherwise he is put on probation.

Students who have been dropped or put on probation because of poor scholarship at other institutions, will be placed on probation if permitted to register.

Students on probation are not eligible to represent the school in an athletic contest, any debate, or hold office in any extra curricular activity or school organization whatsoever.

Dropped: A student who fails to carry at least six hours of the work for which he was registered, will be dropped from the college.

Withdrawal from Courses: No student will be allowed to drop a subject without the approval of the dean. Repeated absence without satisfactory excuse will be punished by putting the student on probation and recording a failure in the student's record for the courses concerned. Failures are also

recorded in the final book for withdrawals made after the seventh week of the semester whether with or without permission.

Honorable Dismissal: Any student leaving at any time after registration must return all locker keys, library books, etc., and must be formally dismissed from the institution. Students failing to obtain an honorable dismissal will not be recommended to other institutions.

STUDENT AID

The College Loan Fund. A fund was established several years ago to be loaned to graduates of the Joliet Junior College to be used in continuing their training at some institution of higher education. The fund is held in trust and administered by a College Loan Fund Board consisting of five faculty members and the Superintendent. Students of character and promise are allowed to borrow from the fund upon making written application and complying with regulations made for the purpose of protecting the fund. No interest is charged while the student is in school, but an interest of 5% begins from the time the student leaves school. No student is allowed to borrow more than \$300 any one year nor a total of more than \$600. The policy of the Loan Fund Board is to keep the fund working to the limit all the time. The fund was created and has grown from personal gifts, from the proceeds of certain Junior College activities, like the College plays, the second-hand book store, and interest on the fund itself. Applications for loans should be made as soon as the applicant knows he may wish a loan, because the College Loan Fund Board has to make plans sometimes two years ahead. Application blanks may be obtained from the secretary of the Board or the college office, as may also copies of the printed regulations governing the administration of the Fund.

The Bertha E. Denning Memorial Fund. A fund, in memory of Miss Bertha E. Denning, former Dean of Girls, is available to be loaned to members of the Joliet Junior College who need emergency help while pursuing their work in the Joliet Junior College. This fund is held in trust and administered by the same group that controls the College Loan Fund.

Scholarships. There are two classes of scholarships bearing different relationships to the student-body in connection with attendance in the Joliet Junior College. One class consists of those given by the Township Board of Education to cover the tuition charged for two years. The other consists of a private scholarship given to help cover expenses for continuing college course beyond the Junior College.

One boy and one girl from the senior class of the High School may win a Board Scholarship each year. These students must make the highest averages among those living outside of the township and must have good records in other school relationships during their attendance at the Joliet Township High School. Preference will be given to those having attended more than one year. The private scholarship may be won by a young man who makes a high average for his two years in Junior College and gives a real promise of attaining his ambitions thru ability and character. The scholarship is good for two years, and is available only once in two years. Because it is granted privately its status cannot always be totally guaranteed. The appointments for these scholarships rest with the Board of the Joliet College Loan Fund Association.

The Board of Education also grants a scholarship each year to the Valedictorian of the graduating class of each four year high school in Will County.

Robert M. Adam Award. This award will be given during commencement week to the girl and the boy in each class who have made the highest semester hour average for the year. Students must take 12 or more semester hours of work exclusive of physical training each semester to be eligible. Students must have not less than 28 and not more than 60 hours of work exclusive of physical training to be classed as second year students.

STUDENT ORGANIZATIONS AND ACTIVITIES

The Junior College Faculty is anxious to foster all creditable activities for training students to meet successfully their associates after school years are over. Leadership in business and civic life begins in the school organization, on the athletic field or in the social affair. There are opportunities for all in organizations emphasizing athletic, musical, literary and dramatic interests. The faculty urges every student to take

an active part in at least one of these major interests, besides joining in the affairs of purely social nature which include the afternoon social hour and informal evening parties.

The Blazer. The paper, now a permanent activity of the college, offers many opportunities to those interested in publications. On the staff are needed students with writing, business, or executive ability. There are eight issues of the paper each semester. Every student who has paid his activity fee automatically becomes a subscriber.

Junior College Club. The Joliet Junior College Club, to which all students of the College belong, and in which they are urgently invited to participate, aims to give the students entertainment and education along other lines than those pursued, in class, or in assemblies.

Regular meetings are held the first Monday of each month in the Music Room, Auditorium or elsewhere in the building, to suit the requirements of the program.

The Club officers, together with the faculty sponsor, plan these programs with thoughtful effort and appreciate a hearty response, in the matter of attendance, on the part of the student body and faculty.

Student Council. The Student Council was organized for the purpose of bringing about closer cooperation between the student body and the faculty. The Student Council is composed of the President, Vice-President, the Secretary-Treasurer of the Sophomore Class and the same officers of the Freshman Class, the President of College Club, and one representative of each of the following organizations: the Woman's Athletic Association, Men's Athletics, the Annual, and the Blazer.

The Council at the beginning of the year elects its own officers, and, with the approval of the dean, a faculty advisor. It meets every two weeks with the faculty advisor or dean and discusses current problems confronting the student body. The council has the power to make recommendations to the faculty; to direct the social activities of the college; and to recommend the disbursement of the Activity Fee.

Debate. Joliet Junior College is a member of the Debate Division of the Northern Illinois Junior College Conference and won first place in 1936-37 and 1937-38. The present arrangement provides an opportunity for each school to debate five other schools. This should provide sufficient

practice in presentation to justify an intensive study of the question debated.

This work is especially valuable for those who are planning to enter the professions. The ability to speak in public with ease, poise, and conviction is of greater importance today than ever before. No other college activity will pay larger returns for the effort and time expended than this.

The debate division is being constantly enlarged by the addition of new Junior Colleges. A rotating schedule is followed which permits debate with the new schools in the league.

All debaters taking part in inter-collegiate debates receive an award bearing the name of the school and the year of participation.

French Clubs. The Feytel French Club aims to give a background for the study of the French language and literature, to broaden linguistic interest, and literary appreciation. In many instances a meeting of the club is a practical language laboratory. In this laboratory the acquisitions of the class room are put to practical use and new combinations stimulate interest. Co-ordinate with this aim is the desire to furnish suitable means whereby students may meet in a social way outside the classrooms.

The First Year College French Club is more or less of an understudy for the Feytel Club in the second year. Members of this first-year club learn to conduct meetings in French and become familiar with the process of making French Club programs. They get a glimpse of some of the outstanding subjects of interest for such programs. This club, too, has its social meetings and it takes an interest in conversational attainment.

Intercollegiate Athletics. The Junior College Conference is recognized as a leader in athletic activities and athletic standards. Each year it is represented by teams able to compete favorably with the smaller colleges of the middle-west. Joliet has helped maintain the prestige of the Junior College Conference by competing with many four-year institutions in Indiana, Michigan, Wisconsin, Iowa and Illinois.

Joliet competes in basketball, baseball, tennis, golf and track and possesses twenty-one championship trophies won in the last six years. Four of these represent State Championships in basketball for the seasons 1933, 1934, 1935,



STUDENT COUNCIL

and 1938. Championship teams are given sweaters at the end of the season. The "J" is a coveted award and means that the student has successfully carried his college work and has shown ability as a player. Cooperation with members of the team, the coach, and loyalty to the school are also requirements for the award.

W. A. A. The Women's Athletic Association of the Joliet Junior College believes there is a sport or game for every girl—not just for the few who excel. It believes that every girl should be given an opportunity to participate in sports according to her interests and ability. It believes that there is greater joy and recreation in wholesome competition than in intensive competition which aims at championships and records.

Skill in sports and games leads to a richer leisure, the making of friends, and the conservation of physical fitness. A great variety of sports is offered by the Women's Athletic Association, including the following:

Badminton	Field Hockey	Shuffleboard
Baseball	Golf	Swimming
Basketball	Orchesis	Table Tennis
Bowling	Paddle Tennis	Tap Dancing
Deck Tennis	Riding	Tennis
Fencing		

Each girl upon her entrance to Junior College becomes a member of W. A. A.; but to be an active member, eligible for her letter, she must participate in some of the sport activities. Monthly social luncheon meetings are held in the W. A. A. Club Room. J. C. letters are awarded to those girls who have participated in five or ten sport seasons at the Annual Mothers' and Daughters' Banquet in the Spring. Social activities of W. A. A. include a Fall and Spring Ball, Snow Parties, and Invitational Sports Days.

The Women's Athletic Association is affiliated with the American Federation of College Women, whose main purpose is to promote interest in girls' athletics and to foster fairness and clean sportsmanship.

Active membership in W. A. A. assures leisure time which is well worth while.

Co-Recreation. A new activity which has been added to the extra-curricular program of the Junior College is Co-Recreation. College men and women enjoy play together, and co-recreation prepares them for wholesome fun both in and after college life. The co-recreation activities offered include:

Badminton	Fencing	Shuffleboard
Ballroom Dancing	Golf	Swimming
Bowling	Paddle Tennis	Table Tennis
Deck Tennis	Riding	Lawn Tennis

All Junior College students are invited to join Co-recreation Club.

Astronomical Society. The Joliet Astronomical Society, organized in the fall of 1932, meets bi-weekly from October to May. Its programs which are held in the school building consist of lectures and demonstrations by faculty members and by prominent astronomers who appear as guest speakers. The society aims to contribute to the cultural life of the community by offering an opportunity for the study and discussion of the methods and theory of modern astronomy and astro-physics.

Minerology Club. The Joliet Mineralogists, organized a year later, is devoted to the study of geology and to the rocks and minerals hobby. Its meetings alternate with those of the Astronomical Society.

Dramatics. All students interested in dramatics as an extra-curricular activity are invited to try out for the annual college play which is usually given the latter part of the first semester. The play always draws a large house and adds many dollars to the college loan fund each year.

Chorus. The Junior College Chorus is now a permanent organization of young men and women who willingly devote two hours a week to serious study and performance of good classic song literature. Admission to the group is gained thru individual try-outs which are held at the beginning of each semester.

The Chorus benefits those who are planning to enter the teaching profession, and to all it is a splendid opportunity for cultivating a taste for and appreciation of the best compositions in the field of vocal music.

During the year programs are presented for various school and community affairs and exchange programs with other Junior Colleges are sometimes arranged.

Current Events Club. The Current Events Club was organized in December, 1935. Its object is to afford the students of the Junior College an opportunity to keep abreast of current happenings in the world, to formulate intelligent opinions and to hear competent speakers on topics of current importance. Meetings consist of lectures, occasional debates and questions and discussions by members of the club. Faculty members as well as students have found the meetings quite worth while and interesting. Membership is open to any student of the Junior College. There are no dues. The meetings are held weekly at an hour during the class day most convenient to the greatest number of students.

The J.C. The College annual was first published in 1933. The staff is chosen from the student body by the Dean, the sponsor of the Blazer, and the J.C. sponsor.

The J.C. is a member of the National Scholastic Press Association and received second class rating on the 1935 issue. Delegates are sent to the annual convention.

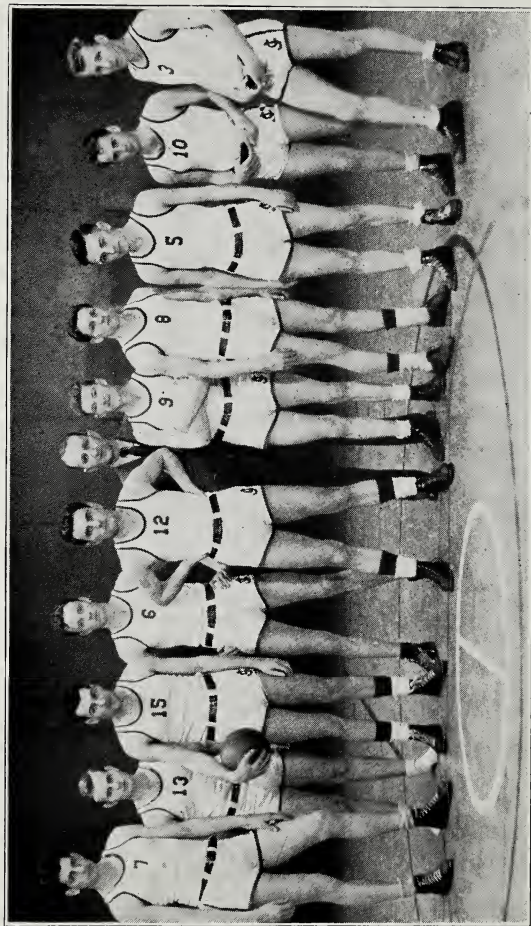
Membership on the staff provides good training in the field of journalism and in making personal contacts.

REQUIREMENTS FOR ADMISSION

Our entrance requirements are intended to be identical with those of the University of Illinois. (See University of Illinois Bulletin Vol. XXX, No. 17). Fifteen units of high school or other secondary school work are required, including the following:

(a) Two majors and two minors or three majors, selected from groups A,B,C,D, and E below. One of the majors must be English. (See definitions of Unit, Major and Minor below.)

(b) A total of at least ten units from the fields of English, foreign language, mathematics, science, and social studies, including preparation amounting to a major or minor sequence in at least three different fields. (See Groups A,B, C,D, and E below.)



STATE CHAMPIONS — 1937-1938

(c) All subjects prescribed for the curriculum which the applicant desires to enter.

(d) Five units from any of the high school subjects which are accepted by an accredited school toward its diploma and which meet the standards for accrediting as defined by the University of Illinois. Fractional credits of the value of less than one-half unit will not be accepted. Not less than one unit of work will be accepted in a foreign language, elementary algebra, plane geometry, physics, chemistry, and biology.

DEFINITIONS

Unit. A unit course of study in the secondary school is a course covering an academic year and including not less than the equivalent of 120 sixty-minute hours of classroom work. Two hours of work requiring little or no preparation outside the class are considered as equivalent to one hour of prepared classroom work.

Major. A major consists of three unit courses in one field. (See special requirements for a major in each of the various fields as stated below.)

Minor. A minor consists of two unit courses in one field. (See special requirements for a minor in each of the various fields as stated below.)

MAJORS AND MINORS

The required majors and minors must be selected from the following groups:

A. English—(In all cases one major must be English.) Only courses in history and appreciation of literature, composition, rhetoric, and grammar will count toward a major.

B. Foreign Language—Three units in one language constitute a major. Two units in one language constitute a minor.

C. Mathematics—Only courses in algebra, plane geometry, solid and spherical geometry, and trigonometry will be accepted toward a major or minor in this subject. (General mathematics may be accepted in lieu of algebra and geometry in cases where the content of the course is essentially the same as that ordinarily included in algebra and geometry.)

D. Science—(Including physics; chemistry; biology, or botany and zoology; general science, or physiology and physiography; astronomy; and geology.) A major must include at least a total of two units chosen from one or more of the following subjects: physics, chemistry, botany, and zoology. Biology may be offered in place of botany and zoology. A minor must include at least one unit from the above subjects.

E. Social Studies—(Including history, civics, economics, commercial or economic geography, sociology.) A major must include at least two units in history, and a minor at least one unit.

SUBJECTS RECOMMENDED FOR ADMISSION AT THE UNIVERSITY OF ILLINOIS

As a further aid to the high school student who is planning to enter the University, and who desires the most adequate preparation, the following recommendations are made as desirable additions to the minimum entrance requirements.

Mathematics is prescribed for admission to a number of the undergraduate curricula. It is recommended to the extent of at least a minor for all curricula.

1. The College of Liberal Arts and Sciences.

For curricula in chemistry, chemical engineering, and home economics:—Physics, one year.

For the pre-medical curriculum:—Advanced algebra and at least a minor in science, including physics or chemistry.

For all other curricula:—A major in foreign language (instead of the minimum requirement of a minor); at least a minor in social studies; and at least a year of work in a laboratory science, which should be physics or chemistry if either of these subjects is to be included in the University curriculum.

2. The College of Commerce and Business Administration.

For all curricula:—Advanced algebra; at least a minor in foreign languages; a minor in social studies.

3. The College of Engineering.

For all curricula (stated in the order of preference):—At least a minor in (1) French or German, or Latin; (2) science; and (3) social studies.

4. The College of Agriculture.

For all curricula:—A major in mathematics; a minor in science, including physics or chemistry. For the home economics curriculum physics is preferred.

5. The College of Fine and Applied Arts.

For the curriculum in painting:—A major in foreign language (instead of the minimum requirement of a minor); a minor in social studies; a year of work in freehand drawing.

For the curricula in music:—A major in foreign language (instead of the minimum requirement of a minor); a minor in social studies; a year of work in a laboratory science; one or two years of work in music.

For the curriculum in landscape architecture:—A major in mathematics; at least a minor in social studies, including civics and economics; a year of work in botany and in freehand drawing.

For the curriculum in architecture:—A minor in science including physics and chemistry; at least a minor in social studies, including economics; a year of work in freehand drawing.

SPECIAL SUBJECTS REQUIRED FOR ADMISSION TO JUNIOR COLLEGE CURRICULUMS

Science and Liberal Arts Curriculum

	Units
I. English	3
II. Latin, French, German or Spanish (both units in same language)	2
*III. Algebra 1 and Geometry 1	2
IV. Electives	8
Total	15

* May be omitted for curriculums not requiring chemistry, physics or mathematics.

Engineering Curriculum

	Units
I. English	3
* II. Algebra	1½
* Geometry	1½
III. Electives	9
	<hr/>
Total	15

* A student may enter with a deficiency in Solid Geometry or Advanced Algebra, or both. This deficiency must be removed the first year of residence if he wishes to continue with an engineering curriculum.

Pre-Medical Curriculum

I. English	3
II. Latin, French or German (both units in the same language)	2
III. American History and Civics	1
IV. Algebra 1 and Geometry 1	2
V. Electives	7
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Total	15

Curriculum for Teachers

I. English	3
II. Algebra 1 and Geometry 1	2
III. Electives	10
	<hr/>
Total	15

Pre-Legal Curriculum

I. English	3
II. Two units in the same foreign language	2
III. Algebra 1 and Geometry 1	2
IV. Electives	8
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Total	15

Chemistry and Chemical Engineering Curriculums

	Units
I. English	3
II. Two units in German	2
III. Algebra	1½
IV. Geometry	1
V. Electives	7½
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Total	15

Pre-Commerce, General Business and Industrial Administration Curriculums

I. English	3
II. Algebra 1 and Geometry 1	2
*III. Advanced Algebra and Solid Geometry	1
IV. Electives	9 or 10
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Total	15

* Required only for Industrial Administration Curriculum.

ADVANCED STANDING

With the sanction of the North Central Association of Colleges and Secondary Schools and by agreement with the Chemistry Department of the University of Illinois, college credit will be granted for High School Chemistry taken in the Joliet Township High School if this work is found to be of college grade and has not been used for entrance credit. Standardized tests and personal interviews will be used to insure proper placement of students in advanced chemistry courses.

Advanced standing in other subjects must be secured by examination and recommendation of the head of the department concerned.

REQUIREMENTS FOR GRADUATION

The Joliet Junior College Diploma will be awarded to students completing one of the two-year curriculums outlined below. Sixty semester hours of academic work and two hours (four semesters) of physical training are required in all curriculums. Permission to deviate from these curriculums will be granted by the dean in case some other subject more satisfactorily meets the requirements for admission to the senior college which the student expects to enter.

TRANSFER OF CREDIT

The Junior College was inspected and put on the accredited list by North Central Association of Colleges and Secondary Schools in 1917. Students who have satisfactorily completed courses in the Junior College are admitted without examination in the work completed by nearly all association members. Acceptance by this organization means, in general, acceptance anywhere in the United States, since no accrediting agency in the country has higher standards than the North Central.

The college is also accredited by the University of Illinois and by the State Department of Education.

Students often lose credit when they transfer to other schools because they were unable to decide upon any particular line of work or upon any particular institution during

their junior college career. Course requirements differ as greatly as institutional requirements; both should be known and planned for in advance or loss of credit will result.

JUNIOR COLLEGE CURRICULA

The Junior College Curriculums are outlined with special regard for the entrance requirements of the senior colleges of the University of Illinois and are intended to give the broad substantial foundation required to do successful work of a specialized nature in any higher institution. The following outlines are virtually copied from the Bulletin of the University of Illinois.

LITERATURE AND ARTS CURRICULUM

First Year

First Semester	Hrs.	Second Semester	Hrs.
Eng. 1—Rhet. and Themes	3	Eng. 2—Rhet. and Themes	3
Language	4	Language	4
Hist. 1—Eng. Hist.	3	Hist. 2—Eng. Hist.	3
Science	5	Science	5
or		or	
Math. 0 or 2—Alg. or		Math. 3—Alg.	3
Trig.	2	Physical Training	1/2
Physical Training	1/2		

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Eng. 5—Eng. Literature	3	Eng. 6—Eng. Literature	3
Language	4	Language	4
Physical Training	1/2	Physical Training	1/2
Approved Electives		Approved Electives	
(Pol. Sci., Econ., Science,		(Pol. Sci., Money and	
Psychology, Debate.		Banking, Science, H'rm'y.	

Students expecting to receive a Bachelor of Arts Degree at the University of Illinois should plan to meet the following requirements as nearly as possible.

A. Prescribed subjects

I. Physical Training

4 semesters

II. Rhetoric

2 semesters

III. Foreign Language

A reading knowledge of a foreign language equivalent to that obtainable after four semesters of a foreign language when commenced in college. Students planning to continue in the Graduate School are advised to take French or German.

B. To be taken prior to the senior year.

I. Liberal Arts

English literature, economics, history, political science: A total of 15 hours chosen from at least three departments, including one course in English literature.

II. Science

Astronomy, botany, chemistry, geology, mathematics, physics, psychology and zoology: A total of 15 hours chosen from at least three departments, including one course with at least 4 hours laboratory work per week.

In any curriculum in which fewer than 15 hours of laboratory science are required, a student who enters without at least one unit of laboratory science shall be required to substitute 5 hours of laboratory science for 5 hours of free electives.

C. To be taken after the freshman year.

I. In the major subject selected, 20 hours.

II. In the minor subjects:

20 hours in one or two departments with not less than 8 hours in each department, if two subjects are chosen.

III. Thirty hours of the work taken in the Junior and Senior years must be in courses not open to freshmen or sophomores.

CURRICULUM IN INDUSTRIAL ADMINISTRATION

First Year

First Semester	Hrs.	Second Semester	Hrs.
Acc'y 1—Prin. of Acc'y . . .	3	Acc'y 2—Prin. of Acc'y . . .	3
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 3—College Alg. . . .	3	Math. 4—Analytic Geom. . .	5
Math. 2—Trigonometry . . .	2	Eng. 2—Rhet. and Themes . .	3
Eng. 1—Rhet. and Themes . .	3	Physical Training	½
Physical Training	½		

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Econ. 3—Prin. of Econ. . . .	3	Econ. 4—Prin. of Econ. . . .	3
Math. 5—Differential Calculus	5	Econ. 5—Money and Banking	3
Physics 1—Mechanics and Heat	5	Math. 6—Integ. Calculus . .	3
Physical Training	½	Physics 2—Electricity, Sound and Light	5
Approved Electives		Mechanics 1—Analytical Mechanics	3
		Physical Training	½
		Approved Electives	

This curriculum is intended for students expecting to enter the administrative or selling departments of industrial firms. Optional groups of electives in the machine industries, the electrical industries, the building trades or the chemical industries are open to students in the third and fourth years at the University of Illinois.

PRE-COMMERCE AND GENERAL BUSINESS CURRICULUM

First Year

First Semester	Hrs.	Second Semester	Hrs.
Eng. 1—Rhet. and Themes	3	Eng. 2—Rhet. and Themes	3
Science	3 or 5	Science	3 or 5
Acc'y 1—Prin. of Acc'y	3	Acc'y 2—Prin. of Acc'y	3
Math. 0 or 3—Alg.	2 or 3	Math. 2 or 3—Trig. or	
Economics 1	3	Alg.	2 or 3
Physical Training	1/2	Economics 2	3
		Physical Training	1/2

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Econ. 3—Prin. of Econ.	3	Econ. 4—Prin. of Econ.	3
Acc'y 3—Accountancy	3	Econ. 5—Money and	
Pol. Sci. 1—Fed. Gov't.	3	Banking	3
Eng. 10—Business Letter		Acc'y 4—Accountancy	3
Writing	2	Pol. Sci. 2—State and	
Physical Training	1/2	Local Gov't.	3
		Physical Training	1/2
Approved Electives		Approved Electives	
Hist., Language, Debate,		History, Language,	
Literature, Science.		Literature, Science.	

Electives. Electives for this course should be chosen so as to meet the following requirements: 8 hours English Literature or foreign language; 12 hours in history and political science (not fewer than six in either will be counted in fulfilling this requirement); 10 hours science.

TEACHER'S TRAINING CURRICULUM

First Year

First Semester		Second Semester	
	Hrs.		Hrs.
Eng. 1—Rhet. and Themes	3	Eng. 2—Rhet. and Themes	3
Hist. 5—Hist. of Civil	3	Hist. 6—Hist. of Civil	3
Science	3 or 5	Science	3 or 5
or		or	
Math. 0 or 3—Alg.	2 or 3	Math. 3 or 2—Alg.	3 or 2
Public School Art	2	Public School Music	2
Educ. 1.	3	Educ. 3	3
Physical Training	1/2	Physical Training	1/2
Approved Electives		Approved Electives	
Language or Geology.		Language or Astronomy.	

Second Year

First Semester		Second Semester	
	Hrs.		Hrs.
Teaching A. M.	6	Teaching A. M.	6
or		or	
Zoology 1 or Botany 1	5	Botany 2 or Physiology	5 or 3
Psychology 1	3	Educational Psychology	3
Physical Training	1/2	Physical Training	1/2
Approved Electives		Approved Electives	
Pol. Sci. 1, Language, Eng. Lit., Geology, De- bate.		Pol. Sci. 2, Language, Eng. Lit., Astronomy, Harmony.	

This curriculum is so arranged that practice teaching may be taken either the first or second semester of the second year. Practice teaching is required of all who desire to obtain a certificate to teach without examination at the time they graduate from Junior College. This work is not accredited by the University of Illinois but is given to satisfy the certificating requirements of the State Board. Six semester hours credit is given toward graduation from Junior College for practice teaching when taken five half days per week for eighteen weeks. This course meets the requirements for Limited State Elementary School Certificates.

The practice teaching is done in the Joliet Elementary Schools under critic teachers appointed by the supervisor of



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these schools. This curriculum is planned for students who intend to teach before completing a four-year course. Students who expect to obtain a bachelor's degree before teaching should take the Liberal Arts Curriculum and major in Education at the University.

PRE-MEDICAL CURRICULUM

First Year

First Semester	Hrs.	Second Semester	Hrs.
Eng. 1—Rhet. and Themes	3	Eng. 2—Rhet. or Themes	3
Chem. 3—Qual. Analysis	4	Chem. 4—Qual. Analysis	4
Zoology 1—Gen. Zoology	5	Zoology 2—Comparative	
Math. 0 or 3—Alg.	2 or 3	Anatomy	5
Physical Training	½	Math. 2 or 3—Trig. or	
Approved Electives		Algebra	2 or 3
		Physical Training	½
		Approved Electives	

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Physics 1—Mechanics		Physics 2—Electricity,	
and Heat	5	Sound and Light	5
Chem. 5—Quan. Analysis	5	Chem. 6—Organic	5
Physical Training	½	Physical Training	½
Approved Electives		Approved Electives	

A reading knowledge of a modern foreign language is required by the medical schools—hence students should take two years of French or German in Junior College unless part of the requirement has been met in high school. (Spanish is not accepted by the University of Illinois College of Medicine.)

Trigonometry is a prerequisite to college physics and should not be omitted from the work of the first year.

PRE-DENTAL CURRICULUM

(See Pre-Medical Curriculum)

Language is not required in either high school or college for this curriculum.

PRE-LEGAL CURRICULUM

First Year

First Semester	Hrs.	Second Semester	Hrs.
Eng. 1—Rhet. and Themes	3	Eng. 2—Rhet. and Themes	3
Language	4	Language	4
Hist. 1—English History	3	Hist. 2—English History	3
Math. or Science	3	Math. or Science	3
Acc'y 1—Prin. of Acc'y	3	Acc'y 2—Prin. of Acc'y	3
Physical Training	½	Physical Training	½

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Econ. 3—Prin. of Econ.	3	Econ. 4—Prin. of Econ.	3
Pol. Sci. 1—Fed. Gov't.	3	Econ. 5—Money and Banking	3
Physical Training	½	Pol. Sci. 2—State and Local Gov't.	3
Approved Electives Science, Acc'y, Literature, Language, Psychology, Mathematics, Debate.		Physical Training	½
		Approved Electives Science, Acc'y, Literature, Language, Mathematics.	

Students intending to enter the Law School of the University of Illinois should take ten hours of mathematics and physical science (not less than five hours in any one of the two will be counted).

If two years of Latin are not offered for entrance, Law Latin will be required at the University.

Students intending to enter the University of Chicago should omit Accountancy 2, 3 and 4, and Econ. 5. They should plan to have a reading knowledge of a Modern language before entering upon the law course. Modern language credits must be validated at the university by continuing the subject for at least one quarter.

CURRICULUM IN CHEMISTRY AND CHEMICAL ENGINEERING

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chem. 3—Qual. Analysis	4	Chem. 4—Qual. Analysis	4
Math. 3—College Alg.	3	Math. 4—Analy. Geom.	5
Math. 2—Plane Trig.	2	Lang.—German	4
Lang.—German	4	Eng. 2—Rhet. and Themes	3
Eng. 1—Rhet. and Themes	3	Physical Training	½
Physical Training	½		

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chem. 5—Quan. Analysis	5	Chem. 6—Organic Chem.	5
Math. 5—Diff. Calculus	5	Math. 6—Integ. Calculus	3
Physics 1—Mech. and Heat	5	Physics 2—Electricity,	
Physical Training	½	Sound and Light	5
		Mech. 1—Analy. Mech.	3
		Physical Training	½

Chemistry courses should not be chosen as electives. Suggested courses for electives are Zoology 1, Botany 1, Geology 1 and 2, English History, and French. Mechanics 1 may be omitted by students taking the Chemistry curriculum.



CHORUS

CURRICULUM IN ELECTRICAL ENGINEERING

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chem. 7—Gen. Ind.	5	G. E. D. 2—Des. Geom. . . .	4
G. E. D. 1—Drafting	4	Math. 4—Analy. Geom. . . .	5
Math. 3—Algebra	3	Eng. 2—Rhet. and Themes	3
Math. 2—Trig.	2	Physical Training	1½
Eng. 1—Rhet. and Themes	3	Elective	3
Physical Training	1½		

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Math. 5—Diff. Calculus . . .	5	Math. 6—Integ. Calculus . .	3
M. A. 1—Pattern Work . . .	3	M. A. 2—Machine Shop . . .	3
Phys. 1—Mech. and Heat	5	Phys. 2—Electricity,	
Physical Training	1½	Sound and Light	5
		Mech. 1—Analy. Mech. . . .	3
Approved Electives		Physical Training	1½
Economics, Pol. Science,		Approved Electives	
Surveying.		Economics, Pol. Science,	
		Surveying.	

CURRICULUM IN CIVIL ENGINEERING

First Year

(See First Year of Elect. Engineering Curriculum)

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Surv. 1—Plane Surveying	3	Surv. 2—Higher Surveying	3
Math. 5—Diff. Calculus . . .	5	Math. 6—Integral Calculus	3
Phys. 1—Mech. and Heat	5	Physics 2—Electricity,	
Physical Training	1½	Sound and Light	5
		Mech. 1—Analy. Mech. . . .	3
Approved Electives		Physical Training	1½
Economics, Pol. Science.		Approved Electives	
		Economics, Pol. Science.	

The work of the first two years in the curriculums for Architectural, Mechanical, Railway Electrical, and General Engineering is almost identical with that of the Electrical Engineering curriculum outlined above.

NURSES' TRAINING COURSE

The policy of the college is to serve the local community, and in accordance with that policy it has offered its facilities to the hospitals of the city. Much of the academic work in the Nurses' Training Course can be done satisfactorily in the Junior College.

During the past year the following courses were given in cooperation with The Silver Cross Hospital:

Elementary Chemistry.

Foods and Nutrition.

Anatomy and Physiology.

DESCRIPTION OF COURSES

MATHEMATICS

Math. 0. Algebra.—A two hour course in algebra designed for Junior College students who have had only one year of high school algebra. It covers the third semester of high school algebra.

Prerequisite: Entrance algebra 1 unit; plane geometry 1 unit.

Credit: 2 hours.

Math. 2. Trigonometry.—The elements of plane trigonometry and their application, including logarithms.

Prerequisite: Entrance algebra $1\frac{1}{2}$ units; plane geometry 1 unit.

Credit: 2 hours.

Math. 3. College Algebra.—Advanced algebraic operations with application to practical problems.

Prerequisite: Entrance algebra $1\frac{1}{2}$ units; plane geometry 1 unit.

Credit: 3 hours.

Math. 4. Analytic Geometry.—The subject of plane Analytic Geometry is covered with a view to its practical application to engineering problems. Three weeks are devoted to solid Analytic Geometry.

Prerequisite: Math. 2 and 3.

Credit: 5 hours.

Math. 5 and 6. Calculus.—A year course. The principles of Calculus are developed and applied to functions of one and of several variables.

Prerequisite: Math. 4.

Credit: 5 hours and 3 hours.

ENGINEERING

G. E. D. 1—Elements of Drafting.—Lettering; orthographic projection; working drawings, charts and diagram drawings; isometric, oblique, and perspective projections; sketching; drawings and tracings and methods of their reproduction.

Prerequisite: Plane Geometry.

Credit: 4 hours. One semester.

G. E. D. 2—Descriptive Geometry.—Theory of projections. Solution of theoretical and practical problems involving size,

shape, and relative position of common geometrical magnitudes such as points, lines, planes, curved surfaces and solids. Intersections, developments, shades and shadows.

Prerequisite: G. E. D. 1 and Solid Geometry.

Credit: 4 hours. One semester.

Mechanics. Theoretical and Applied—The mechanics of engineering rather than that of astronomy and physics. Force systems; equilibrium; centroids and center of gravity; friction; kinematics; problems; statement of conditions and use of data.

Prerequisite: Math. 5; registration in Math. 6.

Credit: 3 hours. One semester.

Surveying 1. Plane Surveying—The theory, use and adjustment of the transit and level; the computation of areas and volumes; farm and city survey; elements of topographic surveying. Problems with the tape, transit and level.

Prerequisite: G. E. D. 1 and 2; Math. 2.

Credit: 3 hours. One semester.

Surveying 2. Higher Surveying—The theory and use of the transit and plane-table in making topographic surveys; methods; topographic surveying.

Prerequisite: Surveying 1; Physics 1 and registration in Physics 2.

Credit: 3 hours. One semester.

Slide-Rule—Theory and use of the various types of slide-rule.

Prerequisite: Registration in Math. 2.

Credit: 1 hour. One semester.

MANUAL ARTS

Manual Arts 1: Pattern Shop Practice and Management.

The work is presented as follows:

1. Simple patterns, molded wholly in the dray, involving draft, shrinkage, finish, and green sand cores.
2. Horizontal and vertical dry sand cores, and split patterns.
3. Segmental patterns, and patterns which are molded in flasks of three or more parts.
4. Loose pieces, and methods of setting cores above or below the parting surface.

Class exercises are used to teach the fundamentals after which students are given individual projects.

Manual Arts 2. Machine Shop Practice and Management.

Three sessions of each week are spent in the shop and one session in the classroom. The shop work consists of making products which have an actual use value, and which embody the basic processes of machine shop practice, such as cylindrical and taper turning, thread cutting, gear cutting, rectilinear and angular work on shaper and planer, cylindrical and surface grinding, etc.

Classroom work covers the mathematics and technology of machine shop practice, the accepted types of standard machine tools, the nature of the materials worked and of the tools which work them, and something of the place of machine shop practice in history and in modern industrial life.

Credit: 3 hours. One semester.

ENGLISH LANGUAGE AND LITERATURE

English 1-2. Rhetoric and Themes—Required of all freshmen. First semester: A study of the elements, principles and qualities of English composition; themes upon careful study of selections from English prose and verse; library reference work; about thirty short themes, and one research theme with outline and bibliography.

Second semester: A continuation of the work begun in the first semester; emphasis on the forms of discourse, with reading in each form; reports of reading due once a week; one research theme with outline and bibliography.

Prerequisite: Three years of high school English. Pupils deficient in grammar should take B IV English in high school.

Credit: 6 hours. Meets M. W. F. both semesters.

English 3-4. American Literature—First semester: A study of American Literature as an interpreter of national ideals, including the Colonial, Revolutionary, Early National and New England Renaissance periods; recitations and lectures; extensive collateral reading; weekly written reports; research paper with bibliography.

Second semester: Continues the work of the first semester with a study of the periods of Transition and Larger Nationalism. Reports; research paper with bibliography.

Prerequisite: The minimum entrance requirements in English.

Credit: 4 hours. Meets Tu. Thur. both semesters.



CURRENT EVENTS CLUB

English 5-6. Survey of English Literature—First semester: a study of English prose and poetry from Beowulf to Wordsworth; recitations and lectures; extensive collateral reading; weekly written reports; research paper with bibliography.

Second semester: Continues the work of the first semester, beginning with Wordsworth and continuing to 1920; collateral reading with weekly reports; research paper with bibliography.

Prerequisite: One year of college work. Either semester may be taken without the other.

Credit: 6 hours. Meets M. W. F., both semesters.

English 7. Contemporary Literature—Either semester. A study of contemporary drama, novel, and poetry to enable students to form intelligent judgments of individual authors, and to discover and appraise for themselves the outstanding literary tendencies. Extensive reading, reports, and a criticism of some one author in addition to those studied in class will be required of each student. Emphasis will be on the literature since 1890.

Prerequisite: One year of college work.

Credit: 2 hours. Meets Tu., Thur. One semester.

English 8. Introduction to Shakespeare—Either semester. The plays studied each semester will be different so that a student may elect both semesters if he desires. Three plays are studied intensively each semester and other plays are assigned for reading. Among those studied in class are: Hamlet, Lear, The Tempest, Romeo and Juliet, Merchant of Venice, Macbeth, Othello, Winter's Tale, Twelfth Night.

Prerequisite: One year of college work.

Credit: 2 hours. Meets Tu., Thur. One semester.

English 9. Oral Expression (Public Speaking)—A study and interpretation of standard literature; staging of plays, debates, reports.

Prerequisite: Minimum college entrance requirements in English.

Credit: 2 hours. Either or both semesters.

ENGLISH

English 10. Business Letter Writing—Correspondence, principles of business expression and psychological background. Practice in writing various types of letters and business reports. Study of current business letters, lectures, and discussions.

Prerequisite: English 1-2.

Credit: 4 hours. Two semesters.

English 11. Debate and Oral English—This is a course involving both the theory and practice of argumentation, debate and oral English. Both theory and practice in analysis, gathering of material, brief construction, uses of evidence, persuasion, conviction and strategy. The course produces skill in argumentative composition and delivery, logical thinking, vivid statement and effective speaking. The course serves the need of prospective lawyers, business and professional students and others who are interested in the cultural training of effective speech. The last part of the course is usually centered around the proposition used in the annual intercollegiate debates.

Credit: 2 hours. One Semester.

English 12. Introduction to Drama—This course deals with the production phase of plays that have literary merit and popular appeal from the English and American dramatists. The history of the drama from the earliest religious influences to the present day is outlined and discussed. Contemporary drama and playwrights with the development of the Little Theatre and One Act Plays is studied and demonstrated.

Prerequisite: Approval of instructor.

Credit: 2 hours.

ZOOLOGY

Zoology 1. General Zoology—This course is designed to teach the fundamental principles of each of the major divisions of zoology, giving the standard facts of structure, physiology, embryonic development, ecology, geographical distribution and paleontology, and those things necessary for the medical student's correlation as well as for those who desire a foundation for advanced work in this branch of science.

Credit: 5 hours. One semester.

Zoology 2. Comparative Anatomy of the Vertebrates—This course is designed for students in medicine, physical education, and biology. It will consist of lectures, collateral reading, and laboratory dissections. Five vertebrate forms will be dissected comparing their anatomy with that of man.

Credit: 5 hours. One semester.

Zoology 3. Vertebrate Embryology—Study of stages in early development of pig and chick. Required for zoology majors and pre-medical students. Lecture and laboratory work.

Prerequisites: Zoology 1 and Zoology 2.

Credit: 5 hours. One semester.

PHYSIOLOGY

Physiology 1, Human Physiology—Lectures, demonstrations, and discussions on the general aspects of human anatomy and physiology. Illustrated by skeletons, manikins, anatomical models, histological preparations and demonstrative dissection of domestic animals. Open to freshmen. Medical schools and dental schools do not give credit for this course.

Credit: 3 hours. One semester.

ASTRONOMY

Descriptive Astronomy—An elementary course of lectures and laboratory exercises dealing with the earth as an astronomical body, the solar system, and recent investigations in solar research and in stellar astronomy. Students are directed in their reading of recent literature in these fields. Evenings meetings are devoted to constellation study and telescopic observation. Credit is given for attendance at lectures at the Adler Planetarium of Chicago.

Credit: 3 hours. One semester.

GEOLOGY

Geology 1.—A study of geological principles and processes, supplemented by laboratory work with the common rocks and rock forming minerals.

Credit: 3 hours. First semester.



CAST OF JUNIOR COLLEGE PLAY

Geology 2.—Geological processes supplemented by field exercises and with topographic and geologic maps.

Prerequisite: Geology 1.

Credit: 2 hours. Second semester.

FOREIGN LANGUAGE

Language 1-2. Beginner's Course in French—This course is offered for those who have had no French, or but one year of high school French. It consists of elementary grammar, pronunciation, reading of modern authors, composition and conversation. Semesters I and II.

Credit: 4 hours each semester.

Language 3-4. French—This course is offered for those who have had two years of high school French or French 1-2 in the Junior College. It consists of rapid reading of modern prose, poetry, and drama. Conversation, composition, and a study of syntax are continued. Semesters I and II.

Credit: 4 hours each semester.

Language 11-12 Elementary Course in German — This course consists of elementary grammar, easy reading and composition based on reading. (Those having more than one year of high school German may not enter this class.)

Credit: 4 hours each semester.

Language 13-14. Second Year German—This course consists of selections from standard prose writers, sight readings and composition. At the option of the instructor works of general scientific character may be read in the second semester.

Prerequisite: Course 11-12 or two years of high school German.

Credit: 4 hours each semester.

PHYSICS

Physics 1. Mechanics, Molecular Physics and Heat—Lectures, classroom demonstration, recitations, and written exercises. Primarily for students of engineering, science, and medicine.

Laboratory experiments, problems, and quizzes on the above class work. First semester: 2 days each week.

Prerequisite: Math 2, Math 3, and high school physics.

Credit: 5 hours.

Physics 2. Electricity, Sound and Light—A continuation of Physics 1. Second semester: 3 days each week.

Laboratory experiments, problems, and quizzes on above class work. Second semester: 2 days each week.

Prerequisite: Physics 1.

Credit: 5 hours.

CHEMISTRY

Chemistry 1-2. General Inorganic Chemistry—A thorough fundamental course in the chemistry of metals and non-metals.

Lectures, recitations, and laboratory work. Semesters I and II.

Credit: 5 hours each semester.

Chemistry 3-4. Qualitative Analysis—Ionization, mass action, properties of solutions of electrolytes, oxidation, reduction, etc., are thoroughly considered from the quantitative viewpoint. Numerous problems dealing with these topics are solved. Preliminary experiments with the metallic ions, involving the principles of equilibrium, are performed before analysis is undertaken. Laboratory work of the second semester includes analysis of alloys and simple minerals. Ability to handle logarithms and quadratics is essential.

Prerequisite: Chem. 1-2 or the equivalent.

Credit: 4 hours each semester.

Chemistry 5. Quantitative Analysis—(a) Gravimetric Analysis: Determination of chloride and sulphate and complete analysis of brass and limestone. (b) Volumetric Analysis: Acidimetry alkalinimetry, iodimetry, volumetric chloride also permanganate and dichromate methods. Numerous problems are solved. (c) Electrolytic Analysis.

Prerequisite: Qualitative Analysis.

Credit: 5 hours. One semester.

Chemistry 6. Organic Chemistry—The aliphatic compounds and their derivatives and some aromatic compounds are studied. General methods of formation and relations between types of compounds are emphasized. This course covers the work of the first semester of a comprehensive year course and meets the needs of pre-medical students.

Prerequisite: Qualitative Analysis.

Credit: 5 hours. One semester.

Chemistry 7. General Industrial Chemistry—Required course for engineers other than chemical. Those desiring more knowledge of chemistry may elect Chemistry 3 and 4.

Prerequisite: Chemistry I and II or the equivalent.

Credit: 5 hours. One semester.

Note: High school Chemistry of college grade is accepted: (1) as the equivalent of Chemistry 1-2 in the case of students in general academic courses; (2) as the equivalent of the first semester of general engineering Chemistry, to be followed by Chemistry 7; (3) as the prerequisite of Qualitative Analysis. These arrangements are possible only if, as before stated in this bulletin, high school chemistry is not offered for entrance credit.

This credit is tentative only and will be granted fully, only upon successful completion of the succeeding chemistry program.

HISTORY

History 1-2. English History—This is a general course in English History from pre-historic times until the present. The stress is placed upon events important in the progress of the nation's development rather than upon conspicuous concurrences. "It is believed that a study of English History from a viewpoint that is not too narrowly British cannot fail to give deeper insight into the development of American life and thought and civilization."

Credit: 3 hours each semester.

History 3-4. American History—This is a general course in American History from the planting of the English colonies in America to the present. In the Colonial period the emphasis is upon the economic and social phases; but from 1760 the main attention is given to the political and constitutional development of the nation. The course is aimed to make clear from many different points of view, how America has grown out of the European background into a world power with ideals, institutions and possibilities of its own.

Credit: 3 hours each semester.

History 5 and 6. History of Civilization—A survey of the history of civilization from earliest times to the present. The course is designed to make students familiar with the

appearance and development of our present-day institutions and to give them a deeper appreciation of modern culture.

Credit: 3 hours. Two semesters.

POLITICAL SCIENCE

Political Science 1. American National Government—A study of the National Government of the United States. A brief examination of fundamental principles of political science is followed by a study of the Constitution and the nature of the Union, of citizenship, its duties and privileges, and the structure and functioning of the national government.

Credit: 3 hours. One semester.

Political Science 2. American State and Local Government—A study of American State and Local Government. Particular attention is paid to the government of the State of Illinois, Will County, the City of Joliet, and of other local governing units.

Credit: 3 hours. One semester.

ECONOMICS

Economics 1. Economic History of the United States—A survey of the development of the industrial and commercial activities in the U. S. from the beginning of Colonial settlement until the present time; a study of the methods of production that have been used and of the economic institutions that have developed for satisfying the needs of the people. In this course, attention is given to the interaction that is taking place between industry, commerce, agriculture, and the government.

Credit: 3 hours. One semester.

Economics 2. Modern Industry—The economic status of many rural and urban production problems with suggested solutions. Studies of typical extractive and manufacturing industries.

Credit: 3 hours. One semester.

Economics 3. Principles of Economics—A general introductory course concerned with a study of the principles underlying the economic system, with emphasis on problems and principles of production, exchange, and consumption.

Credit: 3 hours. One semester.

Economics 4. Principles of Economics—A continuation of Economics 3, with emphasis on distribution and the problems of applied economics, including government, industry, labor problems, public utilities, taxation, the economic aspects of American agriculture, reform of the economic system, etc. Emphasis is placed on the practical application of economic principles.

Credit: 3 hours. One semester.

Economics 5. Money and Banking—This course deals with the principles of money, the gold standard, paper currencies, inflation, foreign exchange; the development of banking, credit and price control, national banks, investment banking and the Federal Reserve System. Considerable attention is given to the recent changes in our money and banking laws.

Prerequisite: Economics 3.

Credit: 3 hours. One semester.

ACCOUNTANCY

Accountancy 1. Elementary Accounting—This introductory course gives the student a working knowledge of the various steps in the accounting process. Transactions are analyzed and recorded in the various books of entry, postings are made to the ledger, trial balances are prepared, working sheets constructed, the income and expense statement and the balance sheet are made, and the ledger is closed. Depreciation reserves, controlling accounts, and adjusting entries are studied.

Prerequisite: None.

Credit: 3 hours. One semester.

Accountancy 2. Elementary Accounting—The partnership and the corporation with the accounts and procedure peculiar to them, are the types of business organization studied the second semester. Problems involving accounting for cash and commercial papers are solved. The voucher system, beginning manufacturing accounts, valuation reserves, and analysis of statements are included in the semester's work.

Prerequisite: Accountancy 1.

Credit: 3 hours. One semester.

Accountancy 3. Cost Accounting—Cost accounting procedure is introduced by finding exact costs for a departmental trading business. General accounting for the factory, process cost accounting, and job lot cost accounting are illustrated. Statements peculiar to a manufacturing business are prepared. The account-records as well as the forms of papers, necessitated by the handling of materials, labor and burden, are used in the solution of problems.

Prerequisite: Accountancy 2 or two years of high school bookkeeping.

Credit: 3 hours. One semester.

Accountancy 4. Advanced Accounting Principles—Single and double entry bookkeeping are compared. Accounting periods and statements, analysis of statements, partnerships, corporations, installment sales, agencies and branches, consignment, joint ventures, working papers, etc., are some of the topics studied.

Prerequisite: Accountancy 3.

Credit: 3 hours. One semester.

PSYCHOLOGY

Psychology 1.—An elementary course dealing with the fundamental aspects of mental activity. This course is planned to acquaint the student with the facts, principles, methods and general theories of adult human psychology. The course will consist of lectures, readings, discussions, and simple laboratory experiments.

Prerequisite: One year of college work. Not open to those who have had educational psychology.

Credit: 3 hours. One semester.

Psychology 2. Educational Psychology—A general treatment of the fundamental questions of mental life with special emphasis upon the application of psychological principles to the science and art of teaching. Lectures, readings and simple laboratory experiments.

Prerequisite: Psychology 1.

Credit: 3 hours. One semester.

PHILOSOPHY

Introduction to Philosophy—The purpose of this course is to aid the student to achieve an overview of the field of philosophy, to become familiar with the vocabulary of philosophical literature, to be able to read and discuss philosophical literature, to become informed on the lives and writing of the great philosophers, to view the world as a whole, and to cultivate reflection. Only second semester sophomores may elect this course.

Prerequisite: One year of college work.

Credit: 3 hours. One semester.

MUSIC

Harmony 1.—The course in College Harmony consist of: (a) study of scales, intervals, and triads; (b) triad and chord connection up to and including the Dominant 7th Chord in regular resolutions.

Prerequisite: Knowledge of the keyboard equal to one year of study.

Credit: 2 hours.

Harmony 2.—The second semester consists of (a) further study of the Dominant 7th Chord in irregular resolution and all inversions; (b) 7th Chords built on the 7th degree and also on the other degrees of the scale and their resolution and connection with other Chords.

Prerequisite: Harmony 1 or its equivalent.

Credit: 2 hours.

Harmony 3.—This course consists of: (a) Dominant 9th, and nonharmonic tones, and study of altered chords; (b) study of instrumentation; (c) orchestration of some original or standard piece of work for full orchestra and conducted by the student.

Prerequisite: Harmony 2.

Credit: 2 hours.

Instrumental Ensemble.—The organization is designed to promote skill in the performance and wider appreciation of musical literature written for both large and small ensemble. Each alternate year this organization plays the accompaniment for the school operatic performance. Any symphonic instrument is admitted.

Prerequisite: High School Orchestra or Band experience or the equivalent.

Credit: 1 hour. Two semesters.

Chorus.—This course provides a splendid opportunity for cultivating a taste for and appreciation of the best compositions in the field of vocal music.

Prerequisite: Student must satisfy instructor by try-out that he is able to carry the course.

Credit: 1 hour. Two semesters.

EDUCATION

Education 1. Introduction to Education—An elementary course designed to introduce students to current educational theories, general school practices as shown through educational literature, and sources of educational literature and philosophy, and to offer prospective teachers a comprehensive view of the opportunity and responsibility in the field of teaching.

Credit: 3 hours. One semester.

Education 3. Educational Methods—The aim of this course is to familiarize prospective teachers with methods of organizing and managing pupil groups and to acquaint teachers with the general methods of teaching the elementary school subjects. This course should better prepare students to do practice teaching.

Credit: 3 hours. One semester.

Education 4. Education Tests and Measurements—This is an introductory course conducted on the laboratory plan. A brief survey of the testing movement is followed by a study of the several types of tests. Approximately fifty representative tests are studied with emphasis upon scoring and the tabulation and interpretation of results. Each student is required to keep a classified file of the tests used.

Prerequisite: Educational Psychology.

Credit: 3 hours. One semester.

Education 5. Public School Music—This course is designed primarily for Teachers. It consists of (a) notation and terminology; (b) sight reading; (c) methods and organization; (d) class room observation.

Credit: 2 hours. One semester.

Education 6. Public School Art—Prepares students to teach drawing, construction and appreciation in connection with regular grade school work. Special emphasis upon progressive method and correlation of subject matter.

Credit: 2 hours. One semester.

Education 7. Practice Teaching—This work meets the requirements of the State Board for issuing a Limited State Elementary Certificate. The teaching is done in the Joliet Elementary Schools under a carefully selected group of teachers. In most cases a teacher does not have more than one cadet to train per semester.

Time required: One-half day daily for one semester.

Prerequisite: Introduction to Education (Education 1), Principles and Methods (Education 3), Public School Art and Music are also recommended.

Credit: 6 hours.

PHYSICAL EDUCATION FOR MEN

Physical Education 1-2.—Class work will depend on the interests of the students choosing this course. Class work will be given in calisthenics, mass games, apparatus work, tumbling, pyramids, and fundamentals in basketball, baseball, and track.

Members of the Varsity Athletic Teams may be excused from gymnastic work during the season they are playing.

Credit: $\frac{1}{2}$ hour each semester.

Physical Education 3-4.—A continuation of Physical Education 1-2.

Credit: $\frac{1}{2}$ hour each semester.

PHYSICAL EDUCATION FOR WOMEN

Physical Education 1-2—27 hours actual participation in at least three of the following activities: Ballroom Dancing, Baseball, Basketball, Bowling, Co-recreation Sports, Fencing, Golf, Hockey, Orchesis, Riding, Swimming, Tap Dancing, Tennis.

Credit: $\frac{1}{2}$ hour each semester.

Physical Education 3-4—A continuation of Physical Education, 1-2.

Credit: $\frac{1}{2}$ hour each semester.



TEXTBOOKS USED IN THE JUNIOR COLLEGE

September, 1938

Mathematics, Engineering, Music

- Hudson and Lipka—"A Manual of Mathematics" John Wiley & Sons
Jordan and Porter—"Descriptive Geometry" Ginn & Co.
Mason and Hazard—"Analytic Geometry" Ginn & Co.
Seeley and Ensign—"Analytical and Applied
Mechanics" (new edition) Wiley & Sons
Davis, R. E.—"Manual of Surveying for Field and Office"
(new edition) McGraw
Crathorne and Lytle—"Trigonometry" (with tables) Holt & Co.
Hart, W. L.—"Brief College Algebra" D. C. Heath & Co.
Townsend and Goodenough—"Essentials of Calculus" Holt & Co.
Jordan and Hoelscher—"Engineering Drawing" Wiley & Sons
Welchons and Krickenberg—"Plane Geometry" (Rev. 1938) Ginn & Co.
Nyberg—"Second Course in Algebra" American Bk. Co.
Anderson—"First Forty Lessons in Harmony" C. C. Birchard Co.
Foote and Spaulding—"Modern Harmony" Arthur P. Schmidt

History, Social Science, and Education

- Patrick—"An Introduction to Philosophy" Houghton Mifflin
Ogg and Ray—"Introduction to American Government"
(latest edition—1935) Century Co.
Frasier and Armentrout—"An Introduction to Education"
(latest edition) Scott, Foresman
Dietz—"A Political and Social History of England"
(Revised) MacMillan
Fairchild, Furniss, and Buck—"Elementary Economics"
(latest edition) MacMillan
Almack and Lang—"The Beginning Teacher" Houghton Mifflin
Adams and Vannest—"The Record of America" (1935) Scribner's
Bogart—"Economic History of the American People" (1935) Longman's
Thorndike—"A Short History of Civilization" (1935) . . . F. S. Crofts Co.
Gates—"Elementary Psychology" (latest edition) MacMillan
Smith—"Economics, An Introduction to Fundamental
Problems" McGraw-Hill
Rufener—"Money and Banking" Houghton Mifflin
Spengler and Klein—"Introduction to Business" McGraw-Hill

English

Weeks, Lyman, and Hill—"World Literature"	Scribner
Stevenson—"Treasure Island"	Allyn, Bacon
Halleck Barbour—"Readings from Literature"	American Bk. Co.
Rankin-Solve-Thorp—"College Composition"	Harper's
Greever-Jones—"Century Collegiate Handbook"	Century
Manly—"English Prose and Poetry" (Rev.)	Ginn & Co.
Trams—"Manual and Calendar" (Rhetoric)	
Trams—"Manual and Calendar" (English Literature)	

Foreign Languages and Home Economics

Bovee and Lindquist—"Une Aventure En Francais," Vol. 1	Harcourt, Brace
Bovee and Carnahan—"New French Grammar"	Heath & Co.
Augier and Sandeau—"Le Gendre De M. Poirier"	Heath & Co.
Scribe—"Le Verre D'Eau"	Heath & Co.
Daudet—"Tartarin de Tarascon"	Heath & Co.
Balzac—"Eugenie Grandet"	Heath & Co.
Labiche and Martin—"La Poudre Aux Yeux"	Heath & Co.
Dumas—"La Question D'Argent"	Heath & Co.
Leopold—"Reise Durch Deutschland"	Heath & Co.
Kastner—"Emil Und Die Detektive; Stroebe Und Hofrichter"	Holt & Co.
Hagboldt and Kaufmann—"A Brief Course in German"	Heath
Hagboldt—Book 1—"Allerie"	Heath
Hagboldt—Book 2—"Fabeln"	Heath
Hagboldt—Book 3—"Anekdoten Und Erzählungen"	Heath
Hagboldt—Book 4—"Eulenspiegel Und Munchausen"	Heath
Hagboldt—Book 5—"Funfberuhmte Marchen"	Heath
Purin—Book 6—"Fortunatus"	Heath
Morgan—Book No. 7—"Das Peterle Von Nurnberg"	Heath
Hinz—Book No. 8—"Das Geheimnisvolle Dorf"	Heath
Hagboldt—Book No. 9—"Das Abentener Der Neujahrsnacht" ...	Heath
Leopold—Book 10—"Ein Sommer In Deutschland"	Heath
Hagboldt and Morgan—"Word Book for Graded German Readers 1-10"	Heath
Sapper—"Frieder Im Thuringe Wald"	Crofts
Sapper—"Die Familie Pfaffling"	Crofts
Storm—"Immensee"	Heath
Storm—"Pole Poppenspaler"	Holt
Eichendorff—"Aus Dem Leben Eines Taugenichts"	Heath
Hohrath—"Hannelore Erlbet Die Groszstadt"	Crofts
Spielhagen—"Das Skelett Im Hause"	Heath

Hagboldt—Book 11—"Land Und Lente" Heath
 Hagboldt—Book 12—"Aus Deutscher Vergangenheit" Heath
 Hagboldt—Book 13—"Von Deutscher Sprache Und Dichtung" ... Heath
 Jackson and Pearson—"High Points in German" (Two
 Years) College Entrance Book Co.

Science

Smith, Overton and Others—"A Textbook of General Botany"
 MacMillan Co.
 Shull—"Principles of Animal Biology" McGraw
 Adams—"An Introduction to the Vertebrates" Wiley & Sons
 Martin—"Human Body" Henry Holt & Co.
 Kimber and Gray—"Textbook of Anatomy and
 Physiology" MacMillan Co.
 Baker—"An Introduction to Astronomy"
 (New Book, 1935) Van Nostrand
 Foley—"College Physics" (Second Edition) Blakinston
 Taylor, Watson, and Howe—"General Physics for the
 Laboratory" Ginn & Co.
 Engelder—"Calculations of Qualitative Analysis"
 Brinkley—"Introductory General Chemistry" MacMillan Co.
 Dietrich and Kelsey—"Laboratory Manual to Accompany Introduc-
 tory General Chemistry" MacMillan Co.
 Smith-Kendall—"General Chemistry" (Rev. Ed.) ... Appleton, Century
 Belcher and Colbert—"Properties and Numerical Relationships of the
 Common Elements and Compounds" .. Appleton, Century
 Engelder—"Elementary Qualitative Analysis" Wiley & Sons
 Middleton—"Exercises in General Chemistry Involving Applica-
 tions of the Principle of Equilibrium"
 Mimeographed by Edwards Bros., Ann Arbor, Mich.
 Mahin—"Introduction to Quantitative Analysis" McGraw-Hill Co.
 Remsen and Orndorff—"Organic Chemistry" Heath & Co.
 Colbert—"Laboratory Technique of Organic
 Chemistry" Appleton, Century
 Leighou—"Chemistry of Engineering Materials" McGraw-Hill
 Cleland—"Geology—Physiographical and Historical" . American Bk. Co.

Commercial

McKinsey and Noble—"Accounting Principles" ... South-Western Pub.
 Finney—"Principles of Accounting," Vol. 1 Prentice-Hall
 Schlatter—"Elementary Cost Accounting"
 Laboratory materials to be selected by Mr. McLain.

